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Operation Guide ITM-461

CASIO

Features

- Temperature sensor for temperature reading display.
- Humidity sensor for humidity reading display.

Specifications

Quartz Oscillation Frequency: 32,768 Hz

Display Contents: Analog: Hour, minute, second (3 hands)
Digital: Humidity, temperature

Accuracy: ±30 seconds per month

Temperature: Measurement Range: –19.9°C to 49.9°C
Display Unit: 0.1°C
Measuring Accuracy: ±2°C (0°C to 40°C)

Humidity: Measurement Range:
20% to 90% (Result reading at 5°C to 45°C)
Display Unit: 1%
Measuring Accuracy: ±10% (5°C to 40°C)
(Example: Reading of 40% to 60% will be displayed when humidity is 50%.)

- A temperature reading and humidity reading are taken each minute.

Main Element: Tuning fork type high-performance quartz oscillator, CMOS-LSI

Operating Temperature: –10 to 50°C

- The LCD may become difficult to read at temperatures outside of the range (0 to 40°C).

Battery: Two AA-size alkaline batteries (Type: LR6)

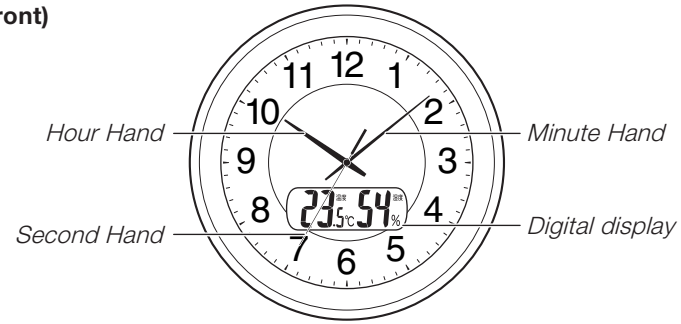
Battery Life: Approximately 1 year

Dimensions: 343(H)×343(W)×49(D) mm

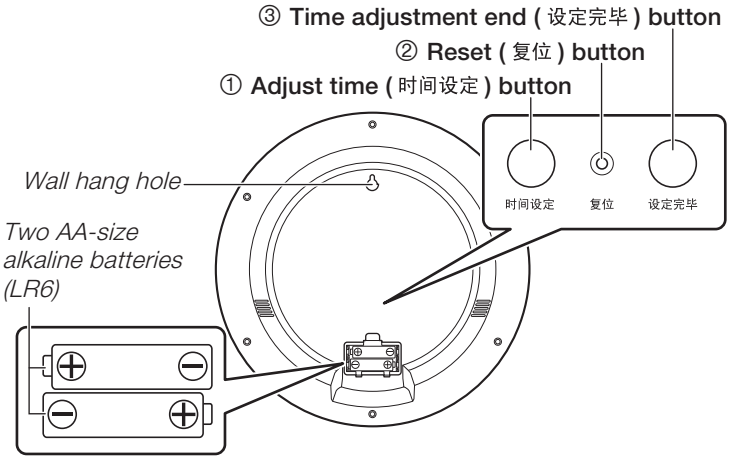
Weight: Approximately 1200g (including batteries)

General Guide

(Front)



(Back - Battery cover open)


③ Time adjustment end (设定完毕) button
② Reset (复位) button
① Adjust time (时间设定) button
Wall hang hole
Two AA-size alkaline batteries (LR6)
时间设定
复位
设定完毕

- The actual appearance of the clock depends on the model.

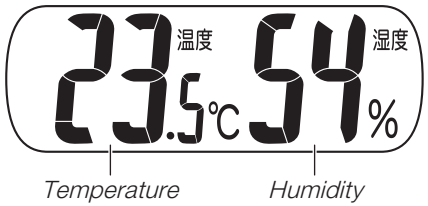
① **Adjust time (时间设定) button**
Use this button to adjust the current time setting.

② **Reset (复位) button**
Be sure to press this button after replacing the batteries.

- If you have trouble pressing this button, use a thin, pointed object to press it. Take care to avoid damaging the clock.

③ **Time adjustment end (设定完毕) button**
Press this button to exit the time adjustment operation.

■ Digital Display Contents



■ Temperature and Humidity Readings

The temperature and humidity reading displayed by the clock are based on measurements taken by the clock's built-in temperature and humidity sensors. Even if there is a sudden change in temperature and/or humidity, it can take up to about 30 minutes until the reading is reflected on the clock display. This is because it takes time for conditions inside the clock match conditions outside. Also, do not leave the clock near an air conditioner air outlet when using sensors.

- The clock takes temperature and humidity readings once every minute (except while a time setting operation is in progress).
- Temperature readings continue to be taken at temperatures lower than 0°C and from 40.1°C and higher, but such readings are outside the guaranteed range.
- The displayed temperature reading will show "LO" when the temperature is lower than –19.9°C and "HI" when it is higher than 49.9°C.
- The displayed humidity reading will show "LO" when the humidity is lower than 20% and "HI" when it is higher than 90%.
- The displayed humidity reading will show "- -" when the temperature is outside the range of 5°C to 45°C.

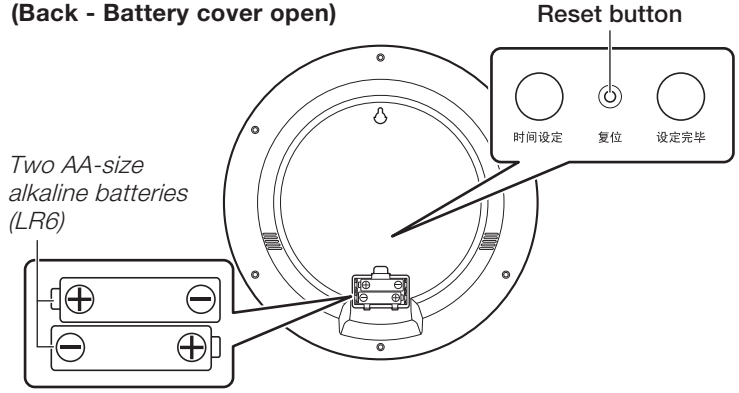
Power Supply

- Your clock runs on two AA-size alkaline batteries.
- Whenever possible use CASIO specified batteries or equivalents.
- Be sure to remove the batteries from the clock when you do not plan to use it for a long time.

■ Replacing Batteries (Replace both batteries!)

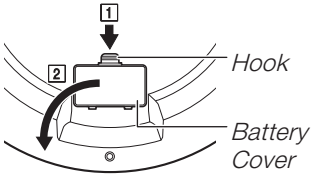
1. Open the battery cover then remove the old batteries. (Refer to "To open the battery cover" below.)
2. Taking care to ensure that their plus (+) and minus (–) ends are facing correctly, load two new batteries. Press them into place as far as they will go.
3. After replacing the batteries, press the reset button.
4. Close the battery cover.

(Back - Battery cover open)



- If you have trouble pressing this button, use a thin, pointed object to press it. Take care to avoid damaging the clock.
- The actual appearance of the clock depends on the model.

■ To open the battery cover



1 Press downwards on the hook of the battery cover with your fingertip.

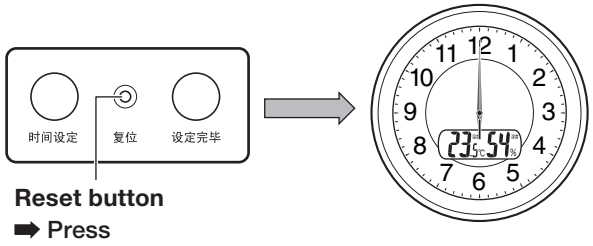
2 While pressing down on the hook, swing the battery cover outwards to open it.

Important!

- **Ensure that the plus (+) and minus (–) ends of the batteries are facing correctly when you load them.**
- **The symptoms listed below indicate that battery power is getting low. Replace batteries as soon as possible after any one of these symptoms occurs. Regular battery replacement is recommended.**
  - Incorrect operation (resetting of time, incorrect timekeeping, etc.)
  - Dim display figures or blank display
  - Slow or stopped timekeeping (analog model)
  - Even if the clock is operating normally, be sure to replace the batteries at least once a year.
- **The batteries are not chargeable. Never try to charge them.**
  - Store batteries out of the reach of small children. Should anyone ever accidentally swallow a battery, contact a physician immediately.
  - Should a battery ever leak, immediately wipe up the fluid, without allowing it to come into contact with your skin.

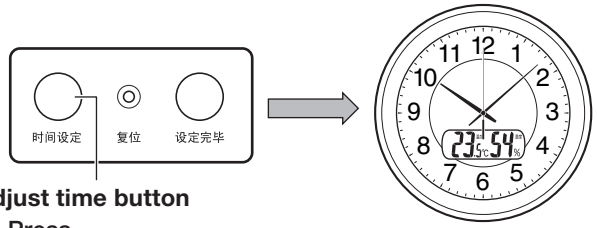
Using the Clock for the First Time

1. Load batteries. (Refer to “Replacing Batteries”.)
   Open the battery cover on the back of the clock and correctly load batteries ensuring that their plus (+) and minus (–) ends of the batteries are facing correctly.
   - Loading batteries will cause the hands of the clock to start changing automatically until they reach 12:00 00 (hour:minute:second).
   - The hands always move clockwise. They do not move counterclockwise.
2. Press the reset button on the back of the clock. (Reset Operation)
   - After the reset operation is complete, close the battery cover.
   - When the hands stop at 12:00 00 press the time adjustment end button. This will cause the hands to start normal timekeeping movement.



Configuring Time Settings

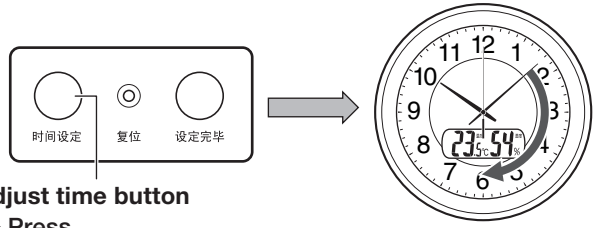
1. Press the adjust time button to enter the time adjustment mode.
   Time the pressing of the adjust time button so the second hand of the clock stops at around 12 o'clock.
   This will cause the hour hand, minute hand, and second hand to stop and enter the time adjustment mode.



Adjust time button
➡ Press

Hour hand, minute hand, and second hand stopped.

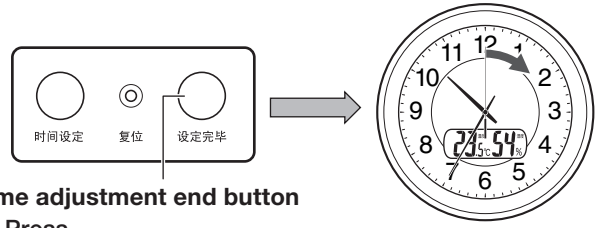
2. Press the adjust time button again.
   This will cause the minute hand to start moving. The hour hand will also move in accordance with minute hand movement.
   Press once: Time setting advances one minute.
   Hold down for two seconds: Hour hand and minute hand move at high speed.
   - To keep from going past your desired setting with high-speed hand movement, move the hands until the setting is about 10 minutes before your desired setting. Then move the minute hand in one-minute increments until your setting is reached.
   - The clock does not distinguish between a.m. and p.m.



Adjust time button
➡ Press

Hour hand and minute hand move at high speed.

3. Press the time adjustment end button.
   Time the pressing of the time adjustment end button with the sounding of a time signal on the TV, on a telephone time service, etc. This will exit time adjustment and start normal second hand movement.
   - Note that the clock will exit time adjustment automatically if you do not perform any operation for about three minutes.



Time adjustment end button
➡ Press

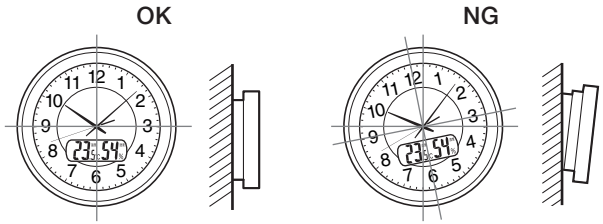
Second hand movement restarts.

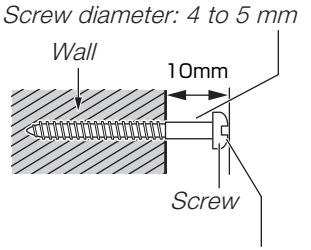
Wall mounting example

Put the clock in the location where you want to use it.

Important!

- **After hanging the clock onto a hook, screw, etc., move the clock upwards, downwards, left, and right, and pull lightly towards you to make sure it is secure. A clock that is hung in a way that is not secure can fall and cause accidents.**
- **Make sure that the clock is straight while hanging, and is not at an angle.**





Important!

- **Be sure to use a screw that is strong enough to support the weight of the clock.**